

TI Process for preparing citalopram and intermediates therefor

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SO Jpn. Kokai Tokkyo Koho, 35 pp.

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LA Japanese

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OS CASREACT 136:309841; MARPAT 136:309841

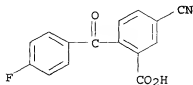
AB Citalopram, a known antidepressant, was prepared in a multistep process. Thus, 6-carboxy-3-(4'-fluorophenyl)phthalide was converted in 3 steps to 6-cyano-3-(4'-fluorophenyl)phthalide (I). I was converted to 5-cyano-2-(4'-fluorobenzoyl)benzoic acid (II); reaction of II with 3-(dimethylamino)propylmagnesium chloride, followed by reduction, gave citalopram.

IT 411221-51-7P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for preparing citalopram and intermediates therefor)

RN 411221-51-7 CAPLUS

CN Benzoic acid, 5-cyano-2-(4-fluorobenzoyl)- (CA INDEX NAME)



METHOD OF PRODUCING CITALOPRAM, INTERMEDIATE THEREOF AND METHOD OF PRODUCING THE SAME

Bibliographic data

[Original document](#)

[INPADOC legal status](#)

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- international: **C07D307/88; C07C253/30; C07C255/59; C07D307/87; C07C253/00; C07C255/00; C07D307/00;** (IPC1-7): C07D307/88; C07C253/30; C07C255/59; C07D307/87

- European:

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Abstract of JP2002114770

PROBLEM TO BE SOLVED: To provide methods of safely and efficiently producing citalopram and an important synthetic intermediate therefor with a reduced environmental load. **SOLUTION:** The objective citalopram and a synthetic intermediate therefor are produced from 6-carboxy-3-(4'-fluorophenyl)phthalide in no need of any toxic reagent.

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